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LISTING OF THE CLAIMS

- 1. (Currently Amended) A composite filter comprising an electronic circuit including at least two cascading filters of different orders and having passband ripples with respect to signal gain of the respective filter at frequencies in a passband of the respective filter and nearly equal in magnitude and out of phase with respect to each other in order to minimize a passband ripple in the composite filter, wherein the orders of the two cascading filters differ in value by exactly one.
- 2. (Previously presented) A composite filter as claimed in claim 1, characterized in that the magnitude of the passband ripples in the at least two cascading filters are equal.
- 3. (Currently Amended) A composite filter as claimed in claim 1, characterized in that at least one of the at least two cascading filters comprises includes a digital filter.
- 4. (Currently Amended) A composite filter as claimed in claim 1, characterized in that at least one of the at least two cascading filters comprises includes an analog filter.
- 5. (Currently Amended) A composite filter as claimed in claim 1, characterized in that at least one characteristic of the at least two cascading filters (202, 204) is selected to minimize the passband ripple in the composite filter.
- 6. (Currently Amended) A composite filter as claimed in claim 5, characterized in that the at least one characteristic comprises includes the order of the at least two cascading filters.
- 7. (Cancelled)
- 8. (Cancelled)

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- 9. (Currently Amended) A composite filter as claimed in claim 5, characterized in that the at least one characteristic comprises includes a bandwidth of the at least two cascading filters.
- 10. (Currently Amended) A composite filter as claimed in claim 5, characterized in that the at least one characteristic comprises includes a stopband attenuation of the at least two cascading filters.
- 11. (Currently Amended) A method for passband ripple cancellation in cascading filters to minimize a passband ripple in a composite filter comprising the steps of: providing in an electronic circuit at least two filters of different orders and having passband ripples with respect to signal gain of the respective filter at frequencies in a passband of the respective filter and nearly equal in magnitude and out of phase with respect to each other in order to minimize the passband ripple in the composite filter, wherein the orders of the two cascading filters differ in value by exactly one.
- 12. (Previously Presented) A method as claimed in claim 11, characterized in that the magnitudes of the passband ripples in the at least two cascading filters are equal.
- 13. (Currently Amended) A method as claimed in claim 11, characterized in that at least one of the at least two cascading filters comprises includes a digital filter
- 14. (Currently Amended) A method as claimed in claim 11, characterized in that at least one of the at least two cascading filters comprises includes an analog filter.
- 15. (Previously Presented) A method as claimed in claim 11, characterized in that at least one filter characteristic for the at least two cascading filters is selected to minimize the passband ripple in the composite filter.
- 16. (Previously Presented) A method as claimed in claim 15, characterized in that the at least one filter characteristic includes a bandwidth for the at least two cascading filters.

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17. (Previously Presented) A method as claimed in claim 15, characterized in that the at least one filter characteristic includes a stopband attenuation for the at least two cascading filters.

18. (Previously Presented) A method as claimed in claim 15, characterized in that the at least one filter characteristic includes an order for the at least two cascading filters.

19. (Cancelled)

20. (Cancelled)